

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062721.D
 Acq On : 1 Aug 2020 6:24
 Operator : JC/MD
 Sample : L3518-43
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12

Quant Time: Aug 01 06:58:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	145560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	267509	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	275153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	98918	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	128877	56.99	ug/l	0.00
Spiked Amount			Recovery	=	113.98%	
35) Dibromofluoromethane	7.55	113	88241	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
50) Toluene-d8	10.06	98	362005	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
62) 4-Bromofluorobenzene	12.38	95	133119	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	

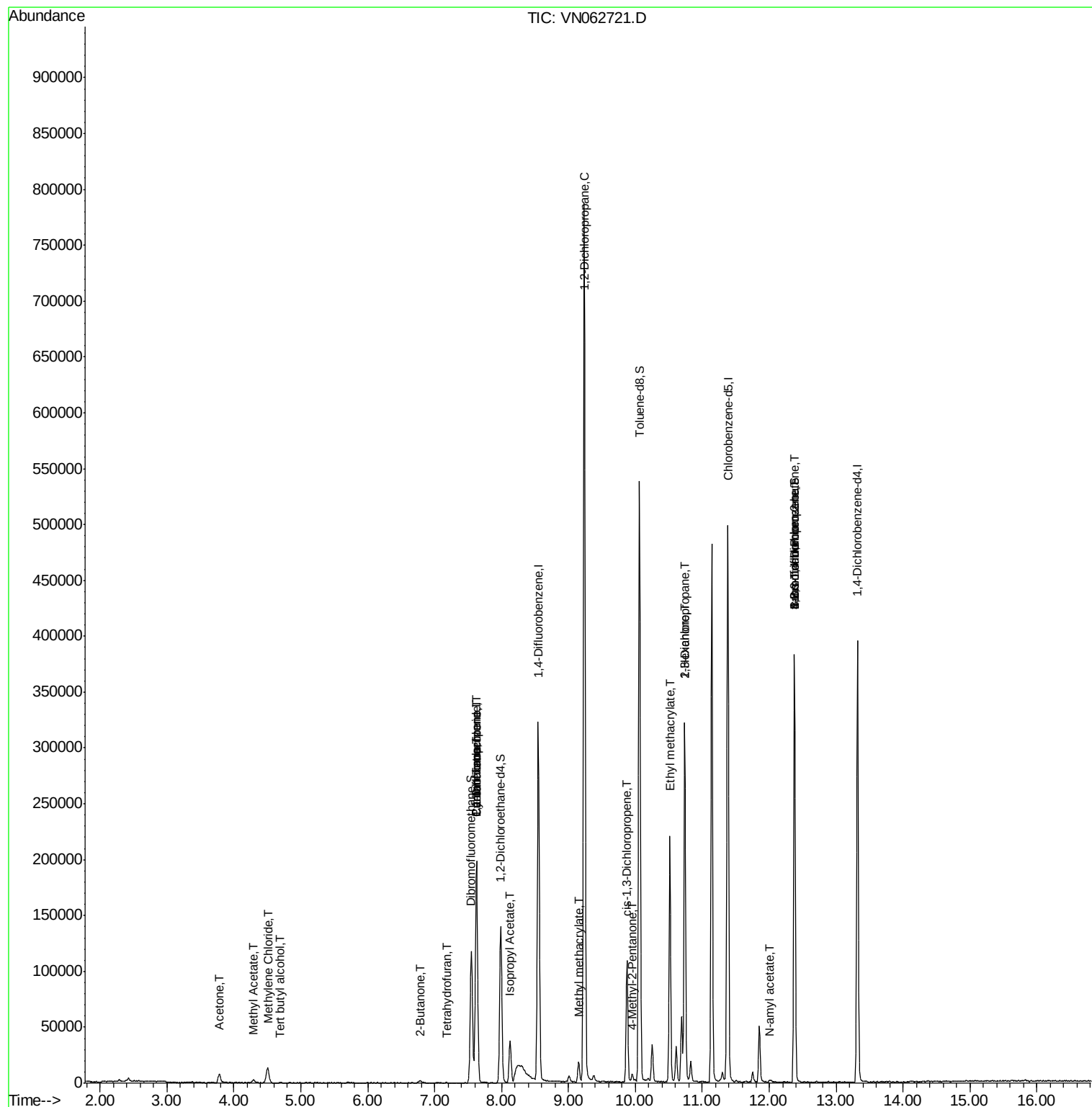
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	91	0.253	ug/l #	73
16) Acetone	3.78	43	14071	16.536	ug/l	98
18) Methyl Acetate	4.28	43	2167	1.006	ug/l #	35
20) Methylene Chloride	4.51	84	9718	4.762	ug/l	98
25) 2-Butanone	6.79	43	868	0.670	ug/l #	52
29) Tetrahydrofuran	7.17	42	248	0.283	ug/l #	38
31) Cyclohexane	7.62	56	3419	1.026	ug/l #	26
36) 1,1-Dichloropropene	7.62	75	13256	4.649	ug/l #	51
38) Carbon Tetrachloride	7.63	117	16118	5.881	ug/l #	18
43) Isopropyl Acetate	8.13	43	44390	8.959	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	941	0.388	ug/l #	44
48) Methyl methacrylate	9.15	41	2627	1.115	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4590	1.548	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	17862	4.927	ug/l #	70
56) Ethyl methacrylate	10.51	69	1041	2.057	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3109	0.873	ug/l #	42
59) 2-Hexanone	10.74	43	47957	23.628	ug/l #	54
71) Bromoform	12.38	173	1266	0.777	ug/l #	1
74) N-amyl acetate	12.00	43	1883	0.539	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	73861	29.335	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	73861	81.663	ug/l #	12

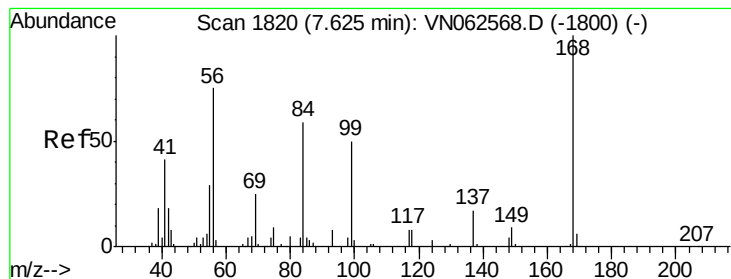
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

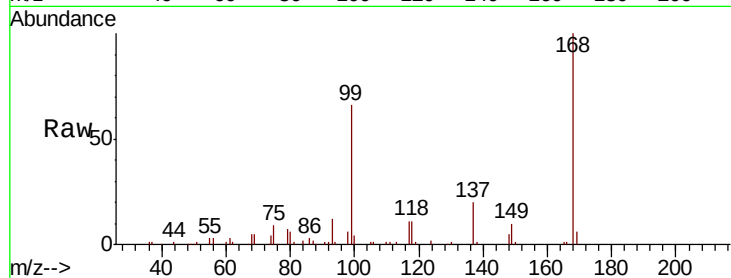
TP-12

Tot Ion:168 Resp: 145560

Ion Ratio Lower Upper

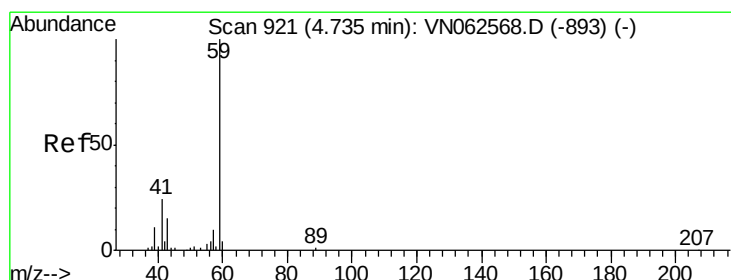
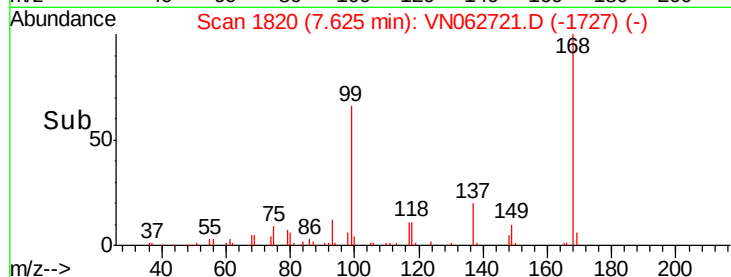
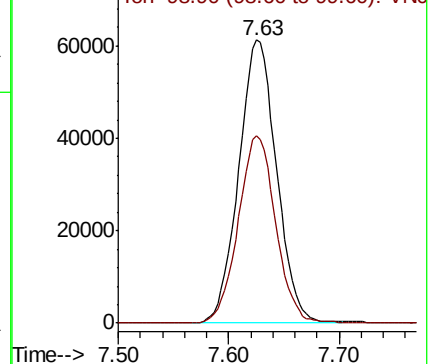
168 100

99 66.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.253 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.03 min

Lab File: VN062721.D

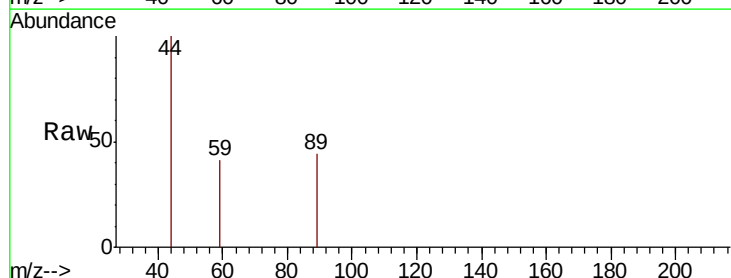
Acq: 1 Aug 2020 6:24

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

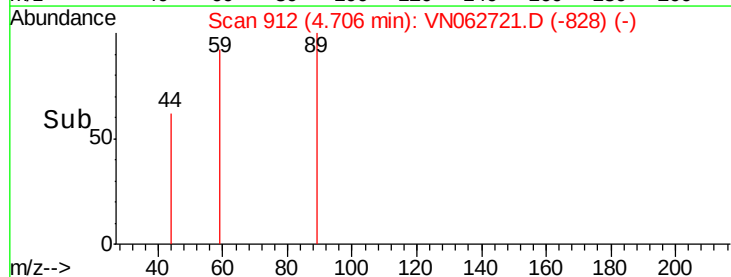
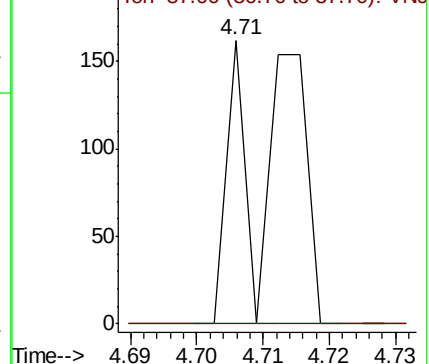
59 100

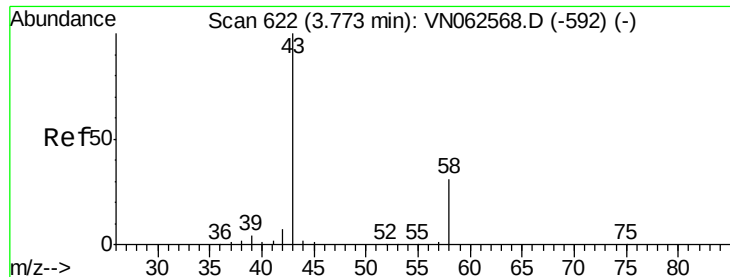
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 16.536 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

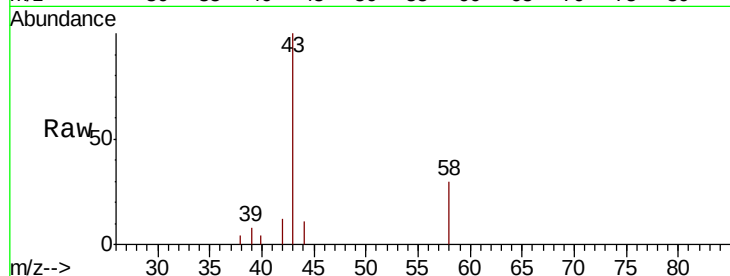
TP-12

Tot Ion: 43 Resp: 14071

Ion Ratio Lower Upper

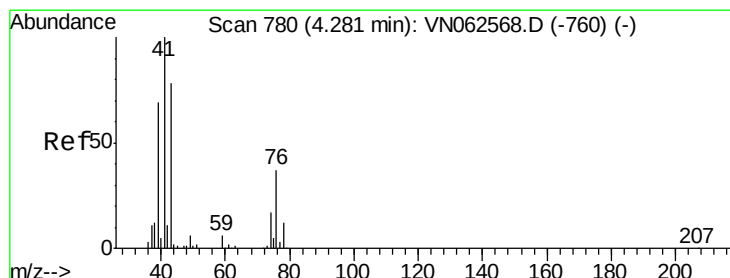
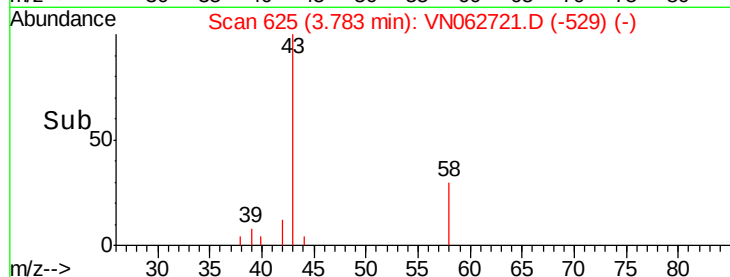
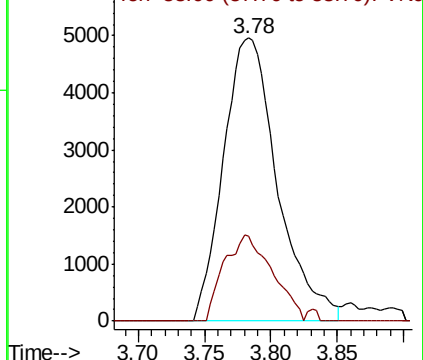
43 100

58 29.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.006 ug/l

RT: 4.28 min Scan# 779

Delta R.T. -0.00 min

Lab File: VN062721.D

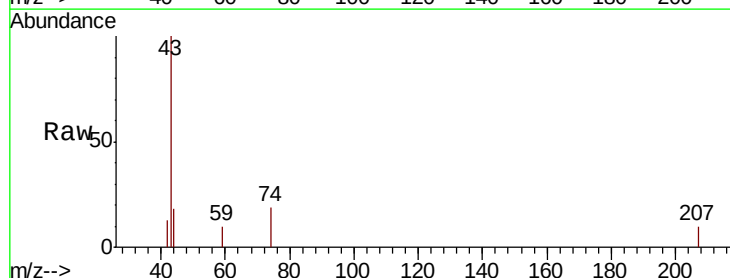
Acq: 1 Aug 2020 6:24

Tgt Ion: 43 Resp: 2167

Ion Ratio Lower Upper

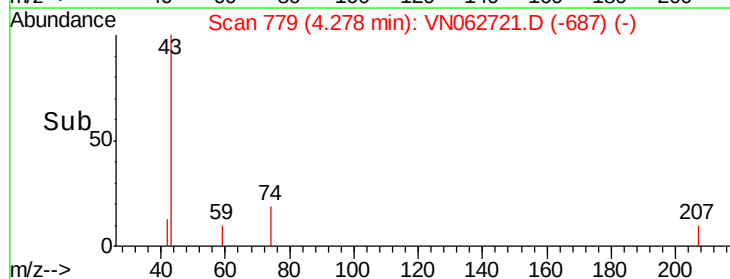
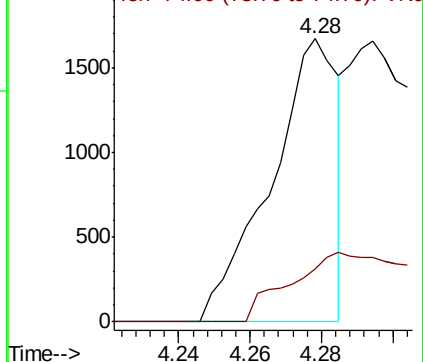
43 100

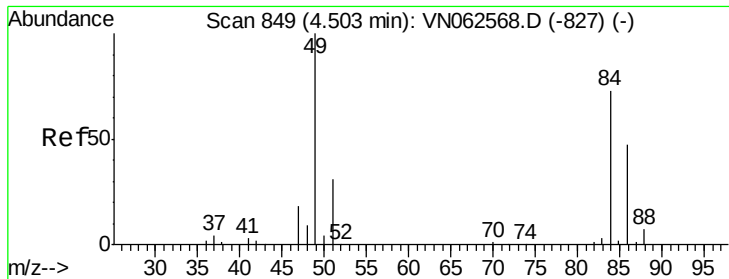
74 50.8 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

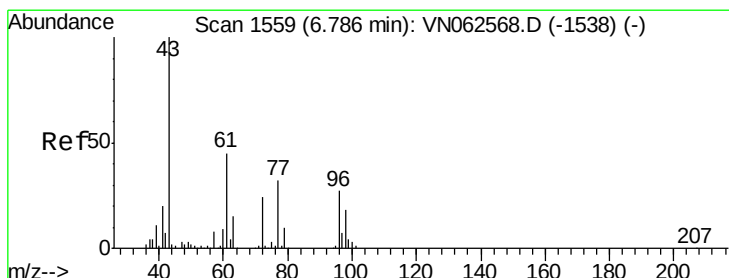
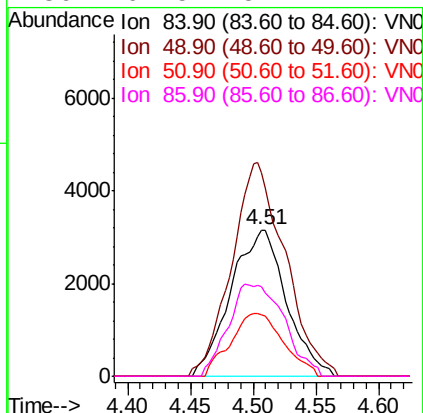
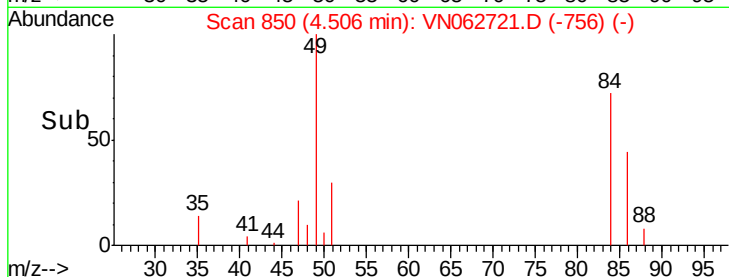
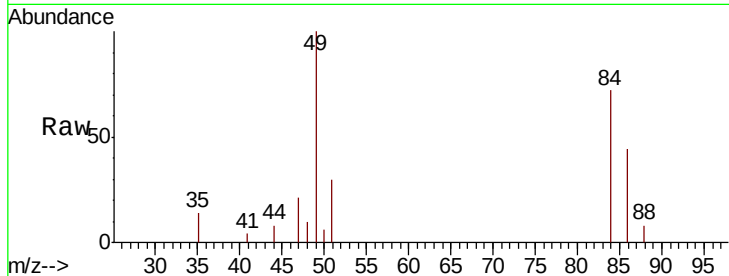




#20
Methvlene Chloride
Concen: 4.762 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062721.D
Acq: 1 Aug 2020 6:24

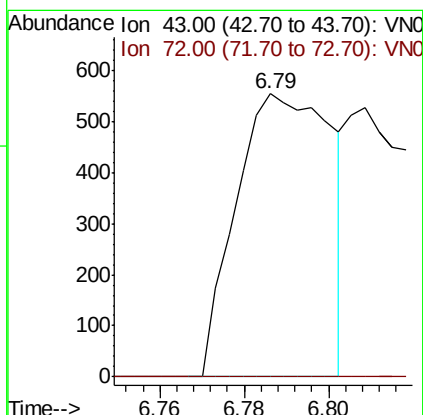
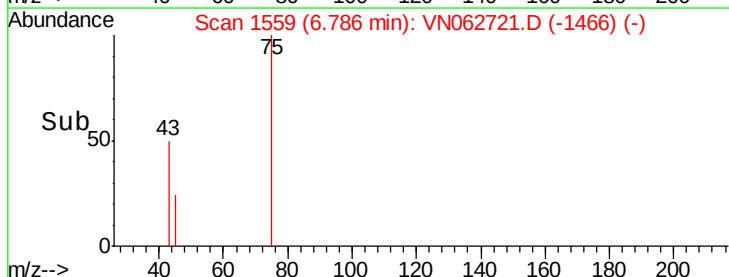
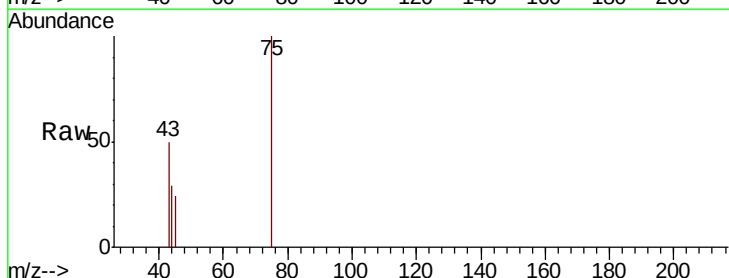
Instrument :
MSVOA_N
ClientSampled :
TP-12

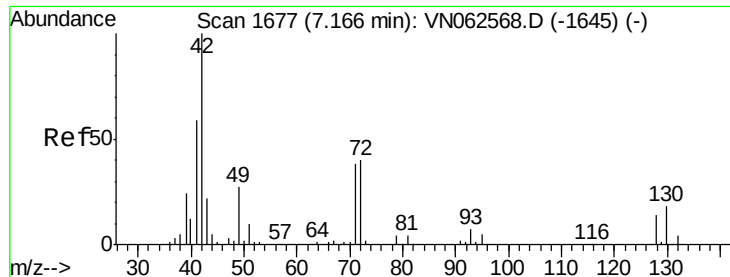
Tot Ion:	84	Resp:	9718
Ion	Ratio	Lower	Upper
84	100		
49	139.2	109.4	164.0
51	42.3	33.6	50.4
86	61.5	51.4	77.2



#25
2-Butanone
Concen: 0.670 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN062721.D
Acq: 1 Aug 2020 6:24

Tgt Ion:	43	Resp:	868
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.0	28.6#





#29

Tetrahydrofuran

Concen: 0.283 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampleId :

TP-12

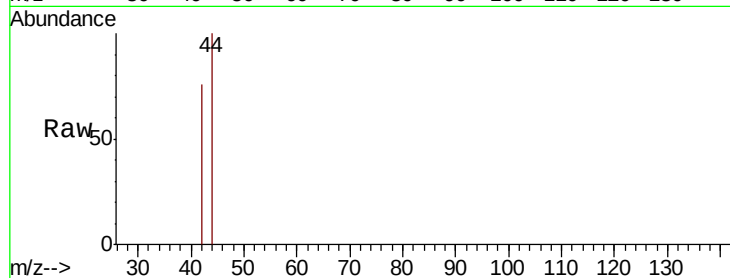
Tot Ion: 42 Resp: 248

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

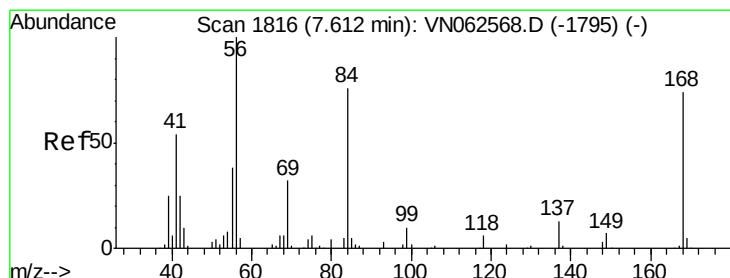
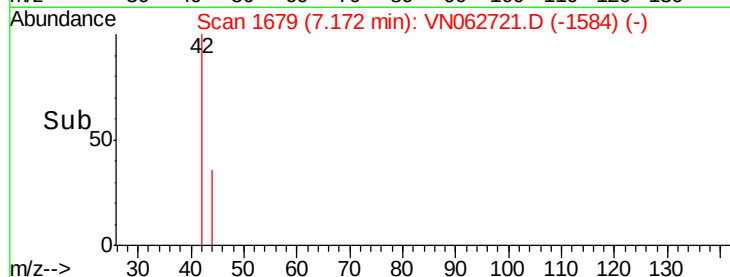
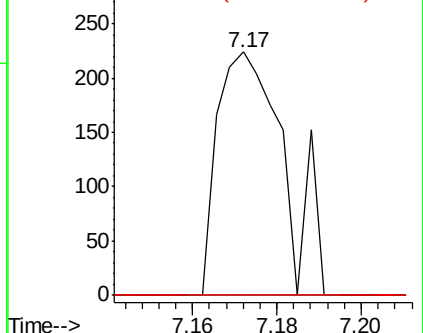
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

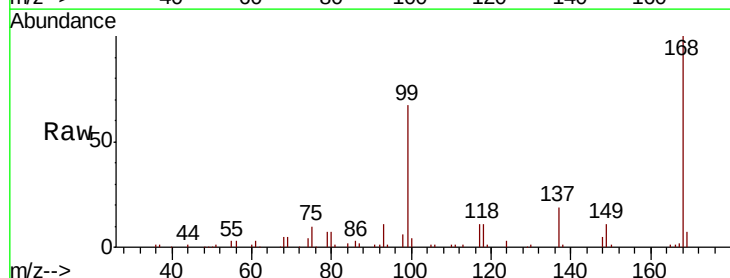
Tgt Ion: 56 Resp: 3419

Ion Ratio Lower Upper

56 100

69 159.4 25.3 37.9#

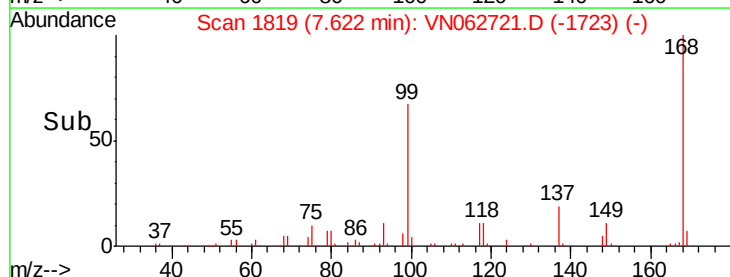
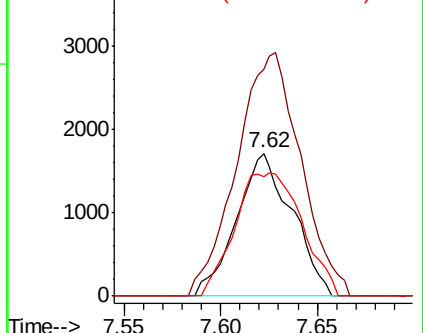
84 84.0 61.0 91.4

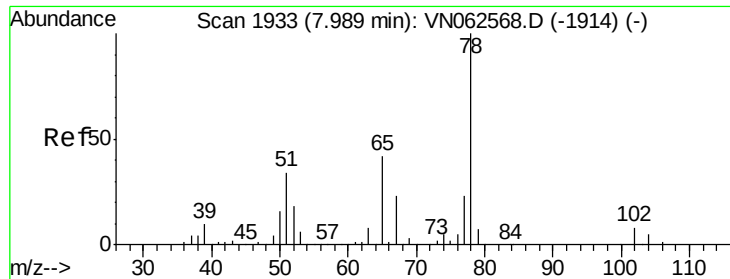


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 56.995 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

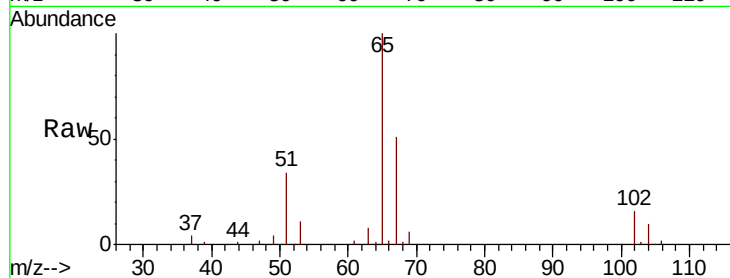
TP-12

Tot Ion: 65 Resp: 128877

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062721.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062721.D (-1840) (-)

7.99

60000

50000

40000

30000

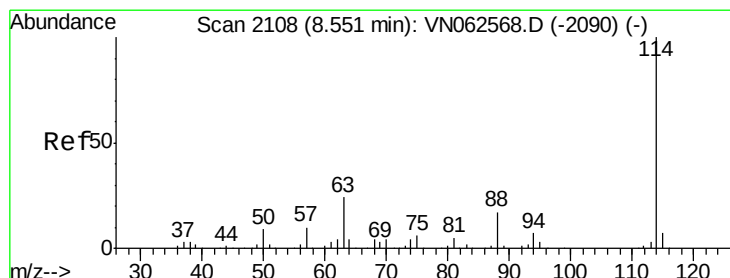
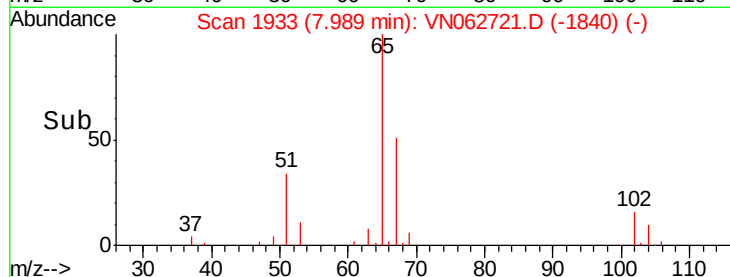
20000

10000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

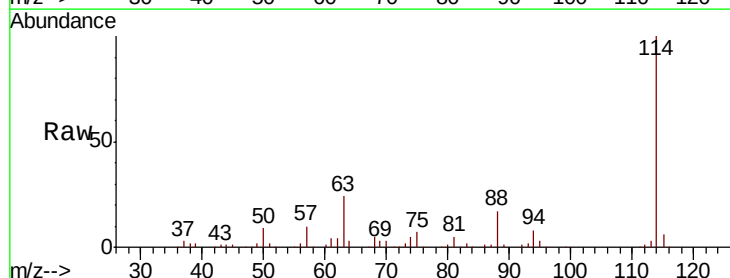
Tgt Ion: 114 Resp: 267509

Ion Ratio Lower Upper

114 100

63 23.6 0.0 48.4

88 17.2 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): VN062721.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062721.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062721.D (-2015) (-)

8.55

150000

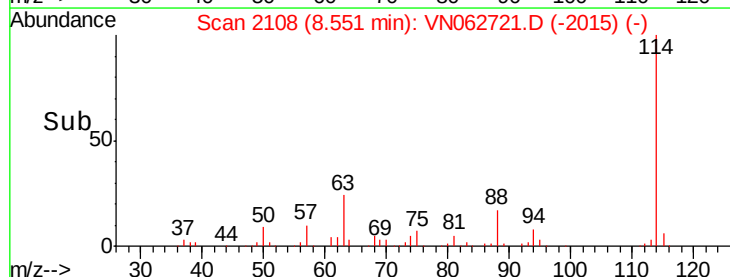
100000

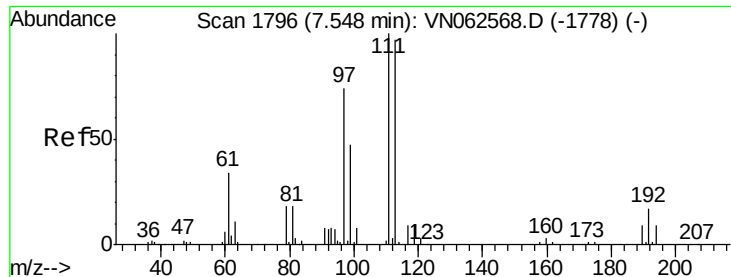
50000

0

8.50 8.55 8.60

Time-->

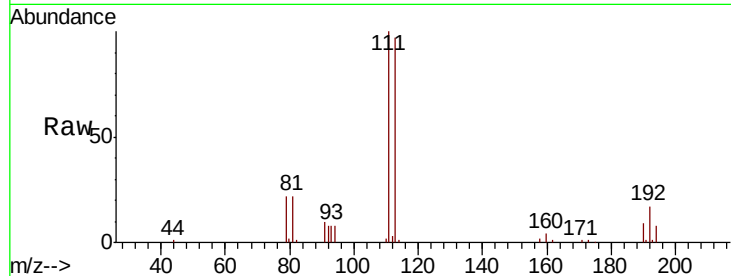




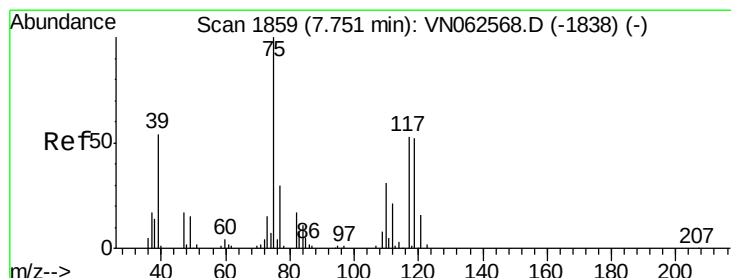
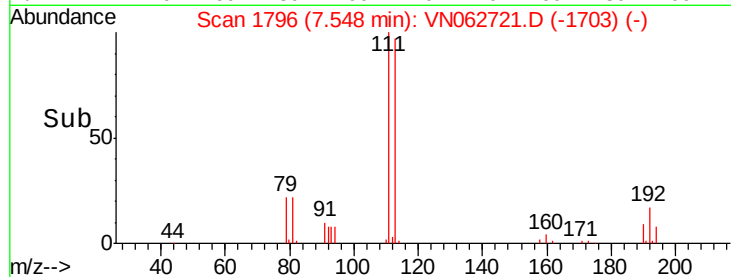
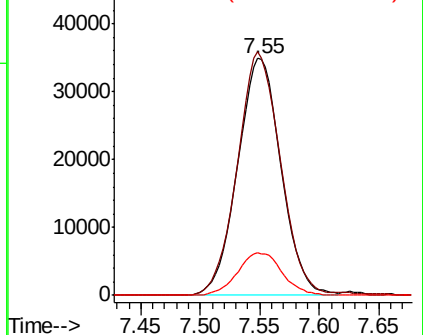
#35
 Dibromofluoromethane
 Concen: 50.218 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12

Tot Ion:113 Resp: 88241
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.7 124.1
 192 18.3 14.8 22.2

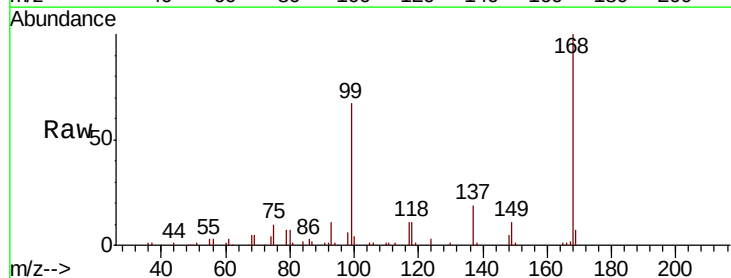


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

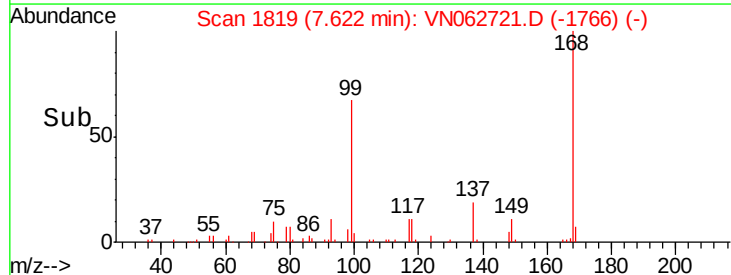
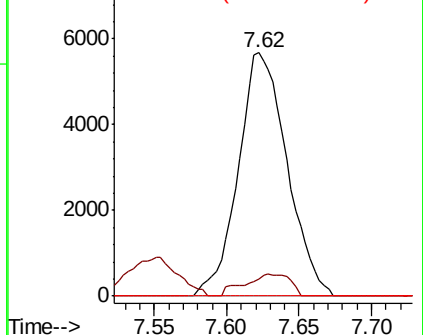


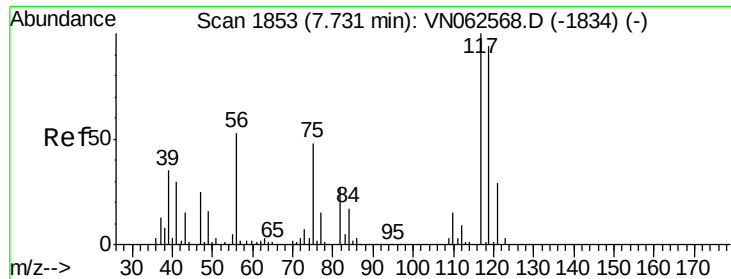
#36
 1,1-Dichloropropene
 Concen: 4.649 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

Tgt Ion: 75 Resp: 13256
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.0 48.0#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.881 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampleId :

TP-12

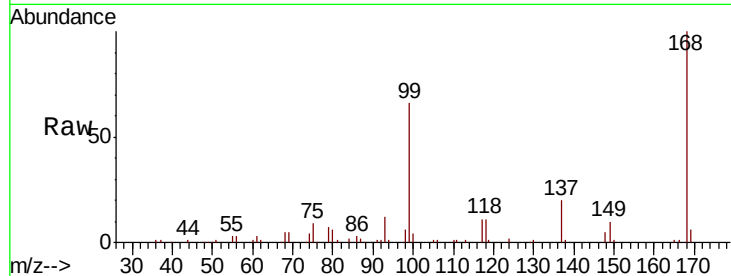
Tot Ion:117 Resp: 16118

Ion Ratio Lower Upper

117 100

119 5.7 74.8 112.2#

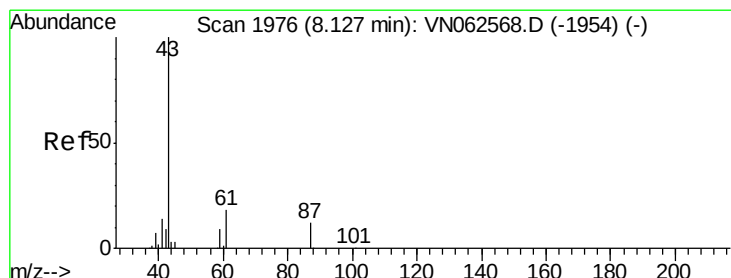
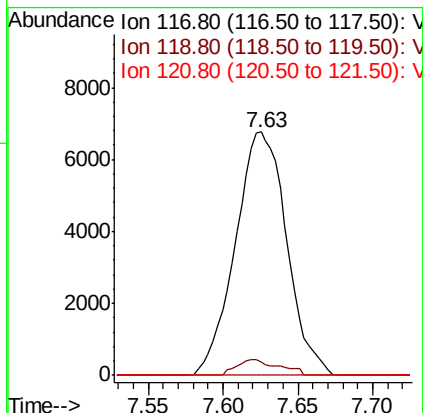
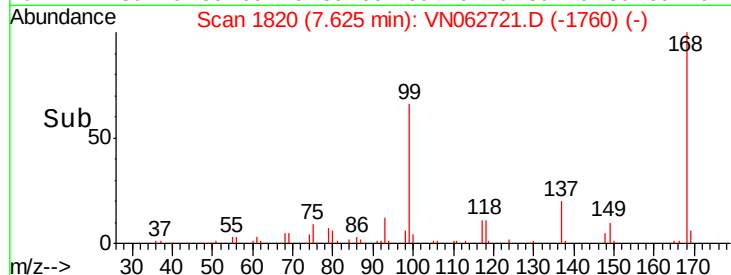
121 0.0 23.0 34.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.959 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

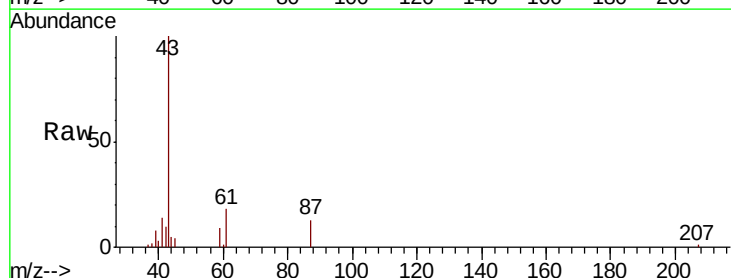
Tgt Ion: 43 Resp: 44390

Ion Ratio Lower Upper

43 100

61 18.9 20.8 31.2#

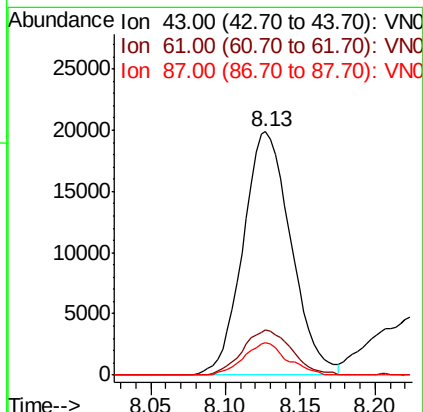
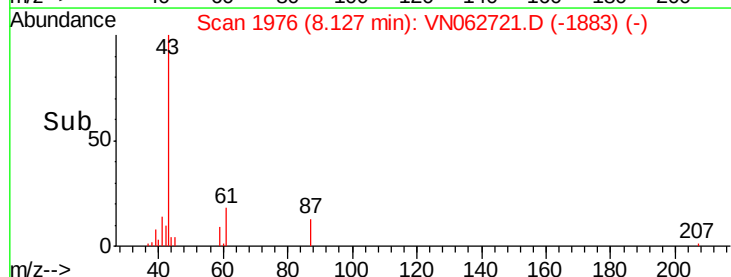
87 12.0 9.2 13.8

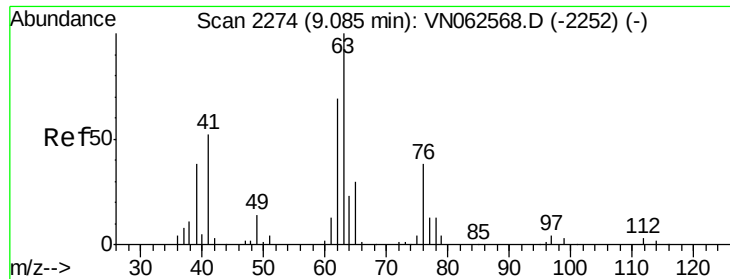


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

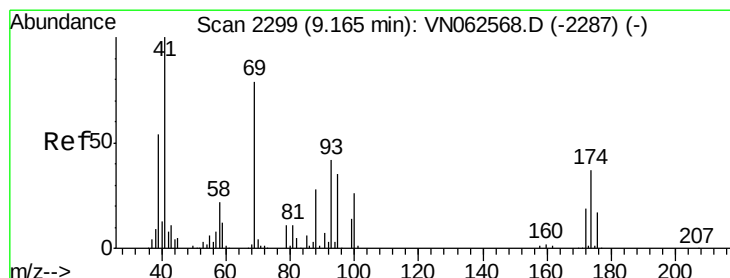
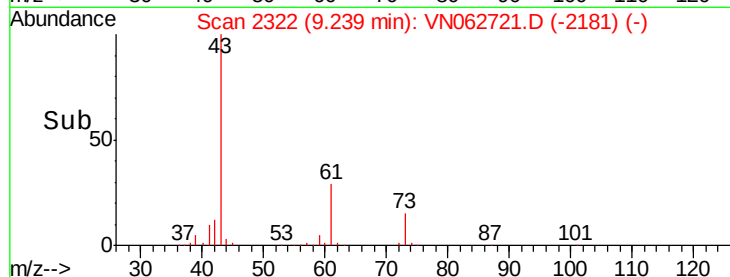
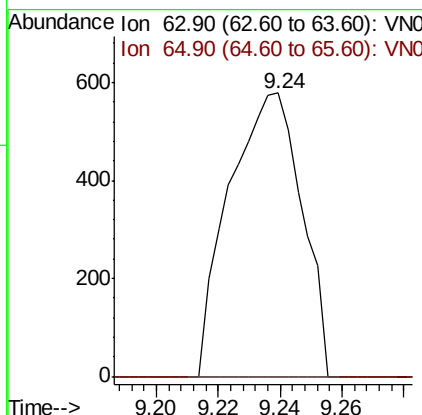
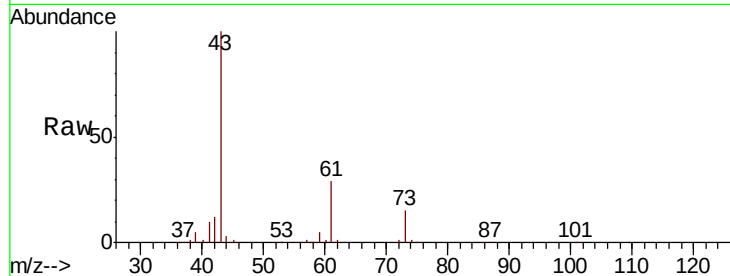




#45
 1,2-Dichloropropane
 Concen: 0.388 ug/l
 RT: 9.24 min Scan# 2322
 Delta R.T. 0.15 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

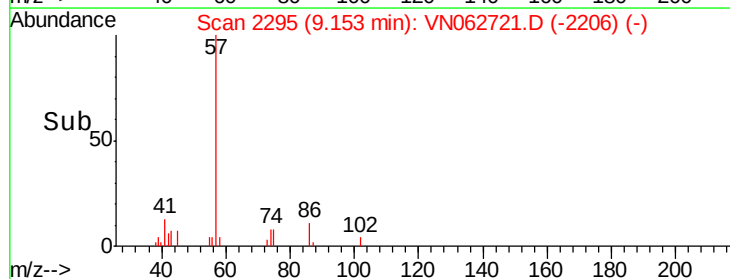
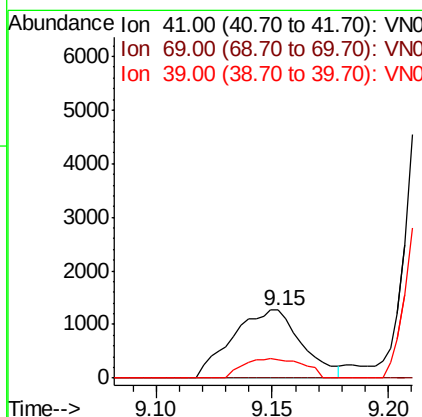
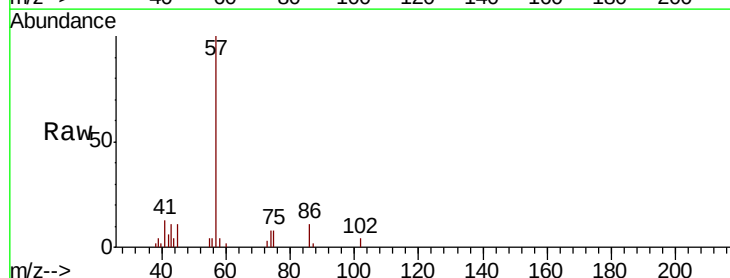
Instrument :
 MSVOA_N
 ClientSampled :
 TP-12

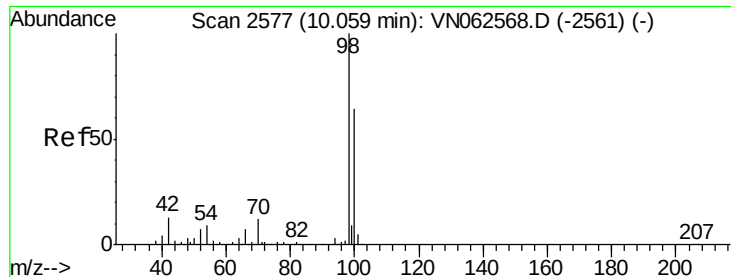
Tot Ion: 63 Resp: 941
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.115 ug/l
 RT: 9.15 min Scan# 2295
 Delta R.T. -0.01 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

Tgt Ion: 41 Resp: 2627
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#





#50

Toluene-d8

Concen: 51.634 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

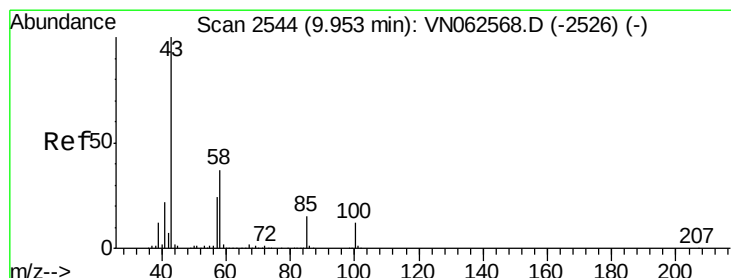
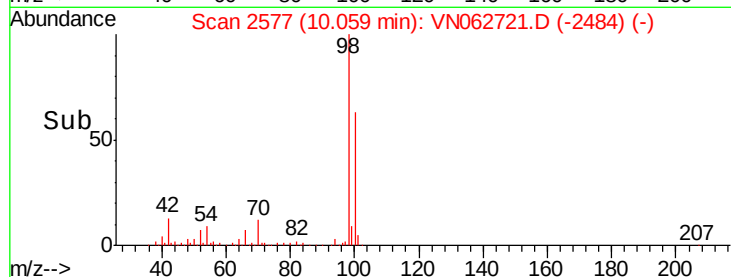
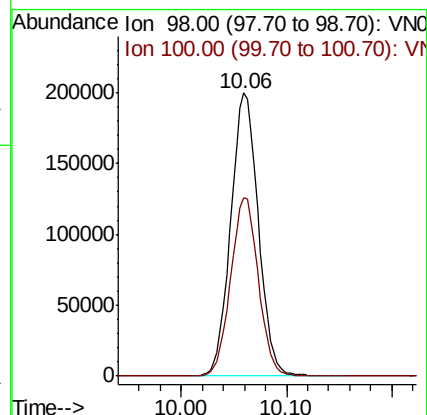
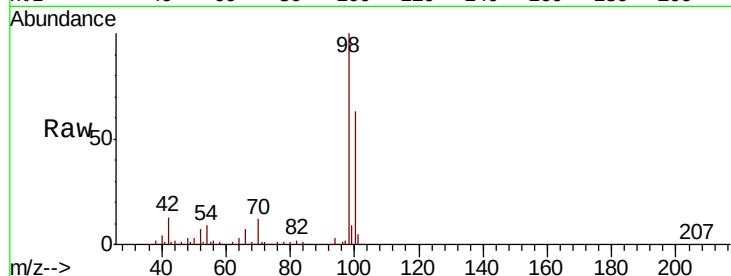
TP-12

Tot Ion: 98 Resp: 362005

Ion Ratio Lower Upper

98 100

100 62.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.548 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062721.D

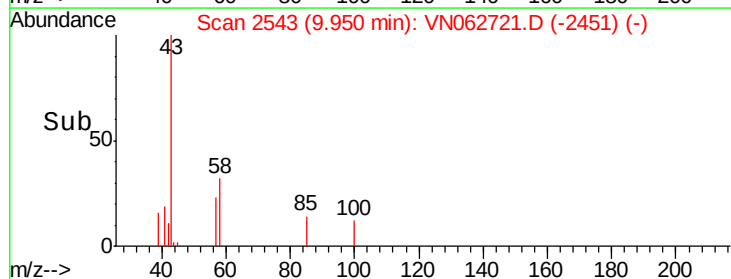
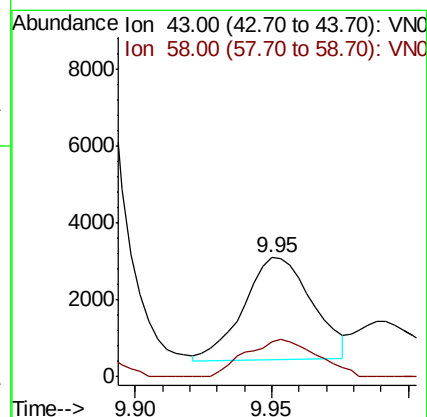
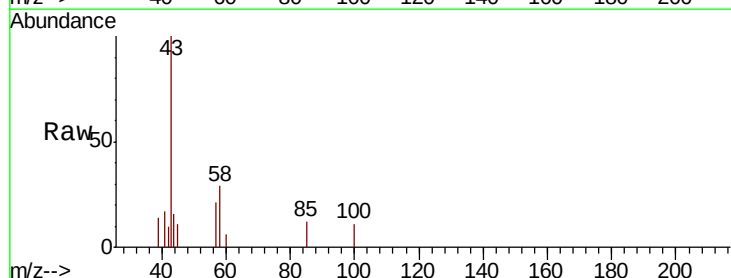
Acq: 1 Aug 2020 6:24

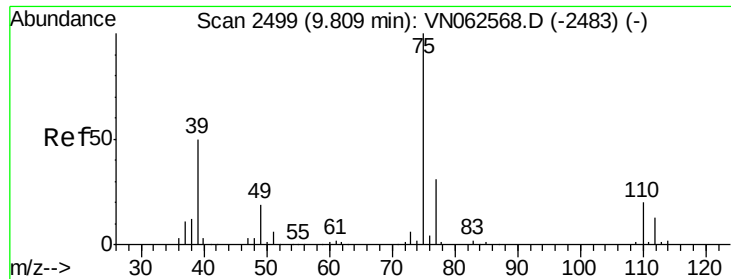
Tgt Ion: 43 Resp: 4590

Ion Ratio Lower Upper

43 100

58 39.1 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.927 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

TP-12

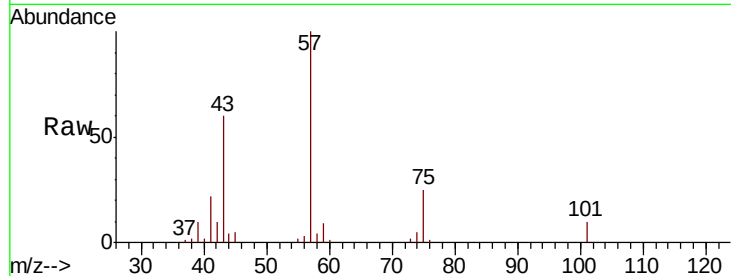
Tot Ion: 75 Resp: 17862

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

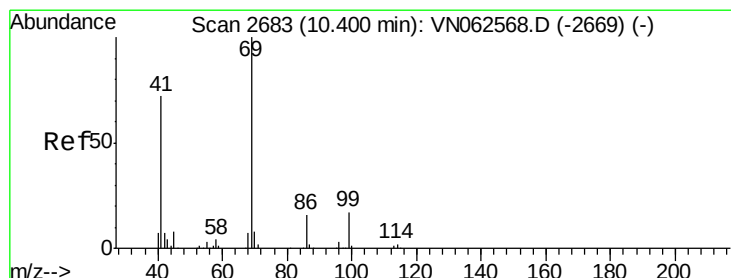
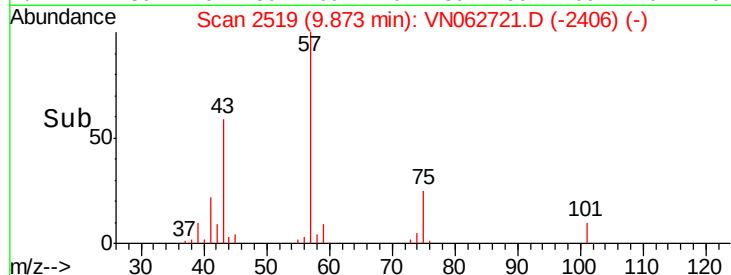
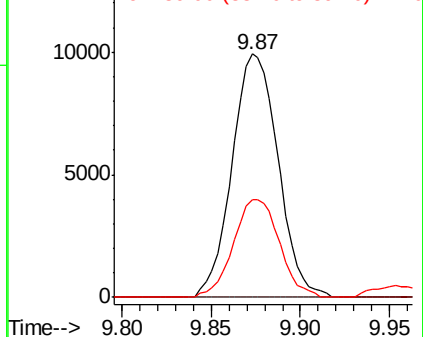
39 40.3 39.8 59.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.057 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

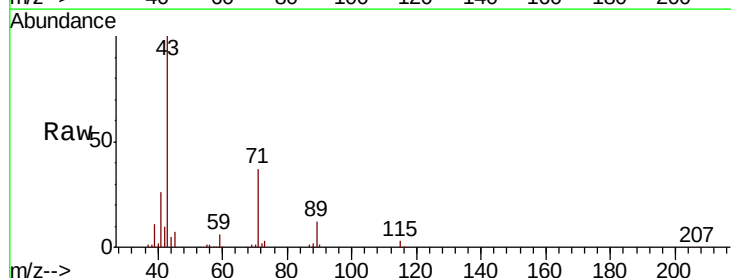
Tgt Ion: 69 Resp: 1041

Ion Ratio Lower Upper

69 100

41 4003.7 57.2 85.8#

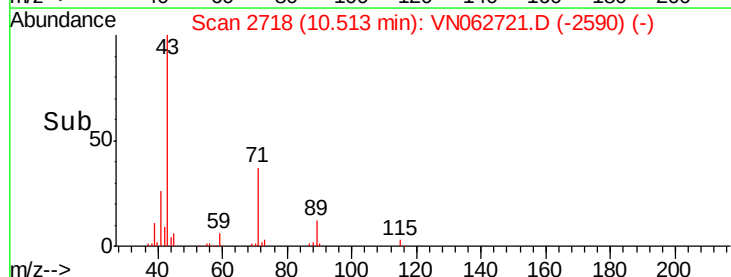
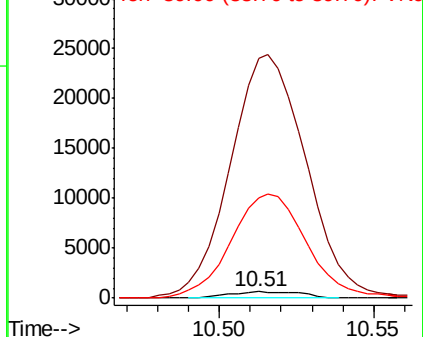
39 1701.4 28.6 43.0#

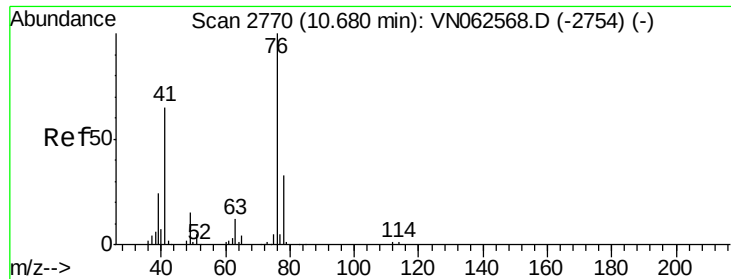


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

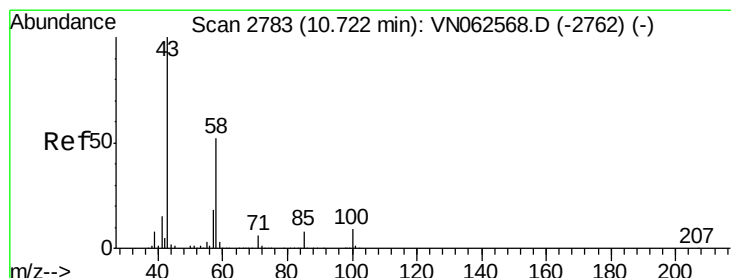
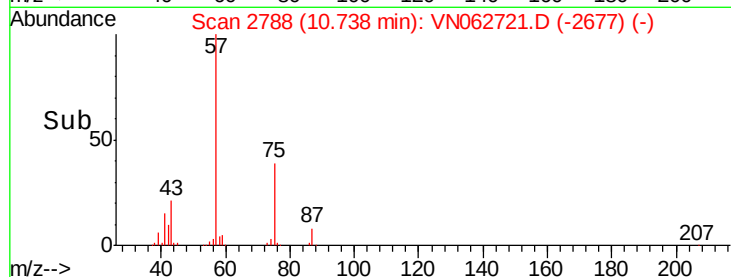
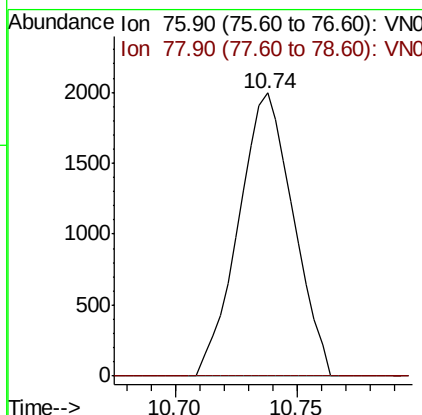
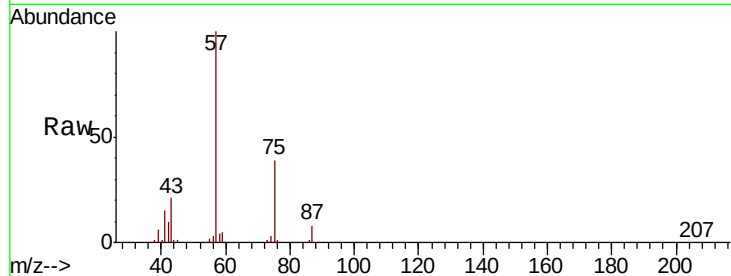




#57
 1,3-Dichloropropane
 Concen: 0.873 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

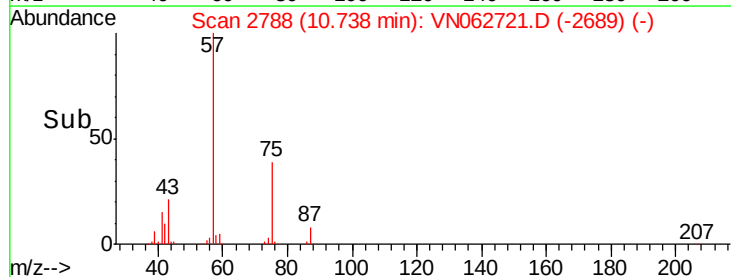
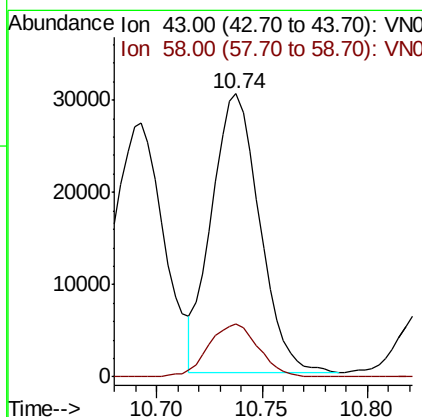
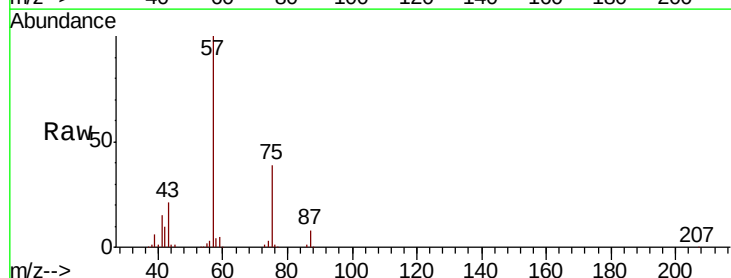
Instrument :
 MSVOA_N
 ClientSampled :
 TP-12

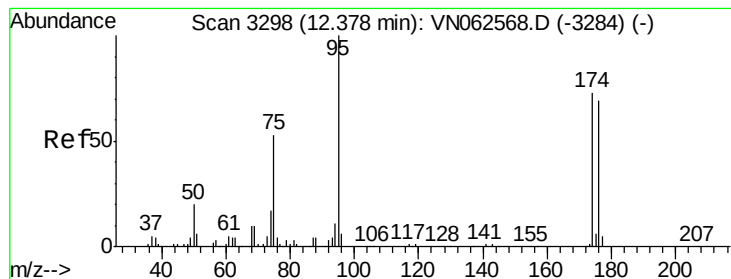
Tot Ion: 76 Resp: 3109
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 23.628 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062721.D
 Acq: 1 Aug 2020 6:24

Tgt Ion: 43 Resp: 47957
 Ion Ratio Lower Upper
 43 100
 58 19.6 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 51.929 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampled :

TP-12

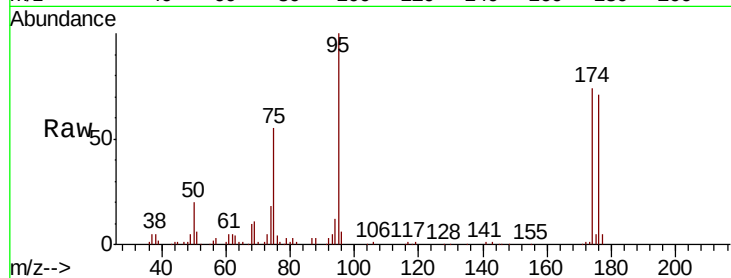
Tot Ion: 95 Resp: 133119

Ion Ratio Lower Upper

95 100

174 73.8 0.0 144.6

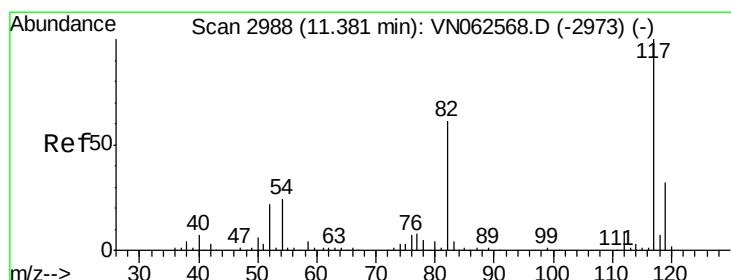
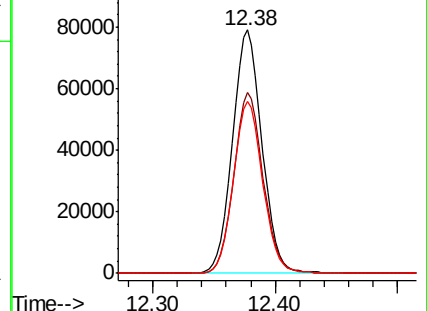
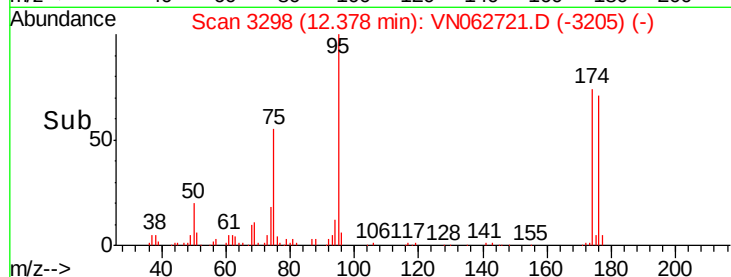
176 70.6 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062721.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062721.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062721.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

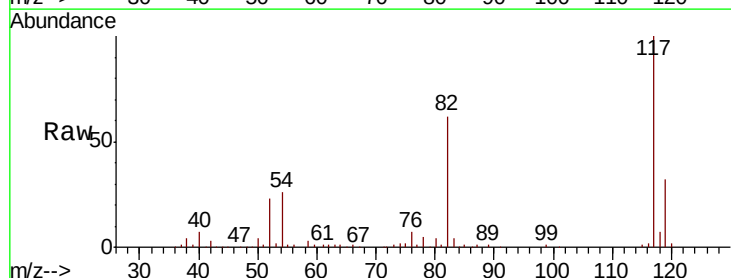
Tgt Ion: 117 Resp: 275153

Ion Ratio Lower Upper

117 100

82 62.0 49.0 73.6

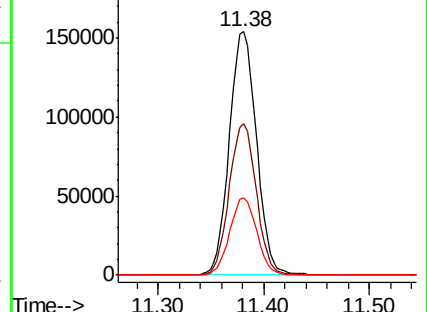
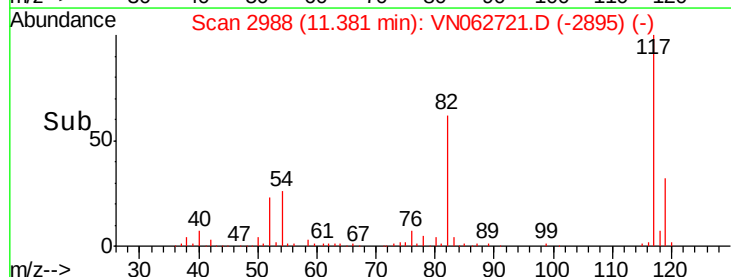
119 32.0 25.4 38.2

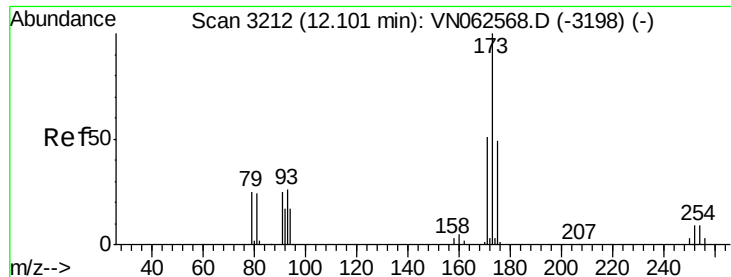


Abundance Ion 116.90 (116.60 to 117.60): VN062721.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062721.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062721.D (-2895) (-)





#71

Bromoform

Concen: 0.777 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampleId :

TP-12

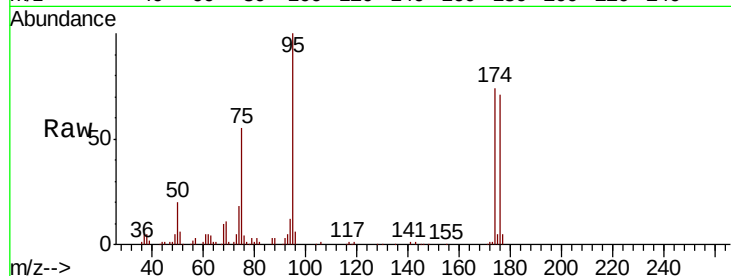
Tot Ion:173 Resp: 1266

Ion Ratio Lower Upper

173 100

175 479.8 24.1 72.2#

254 0.0 0.0 0.0

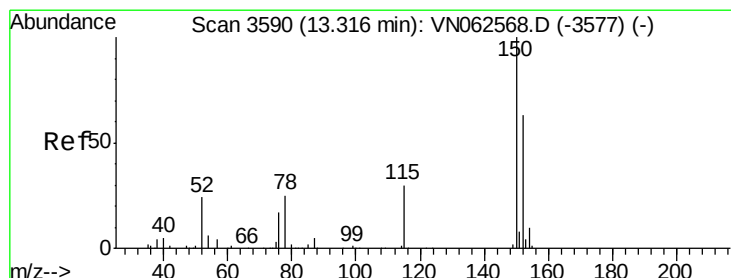
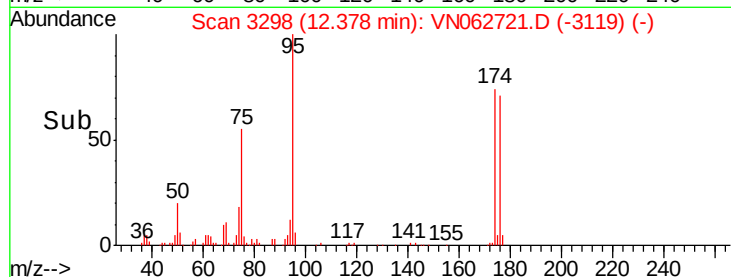
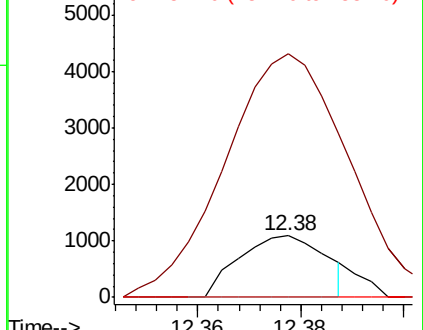


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

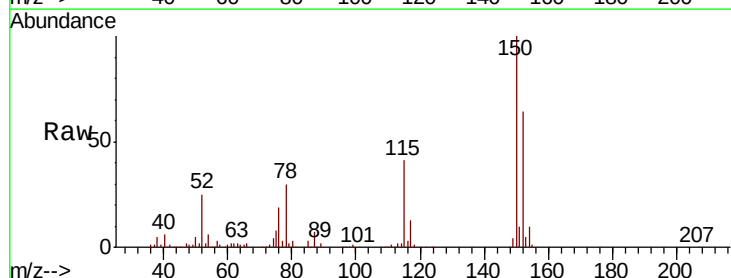
Tgt Ion:152 Resp: 98918

Ion Ratio Lower Upper

152 100

115 65.5 31.8 95.4

150 159.2 0.0 351.4

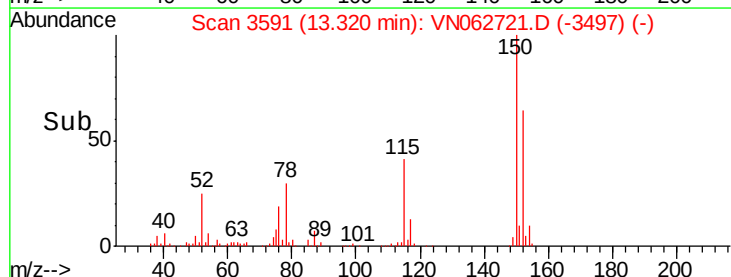
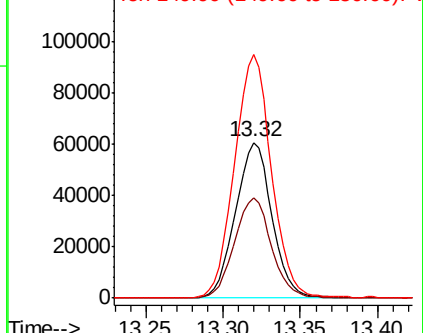


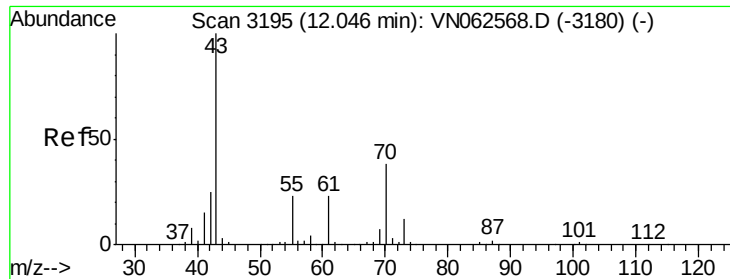
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

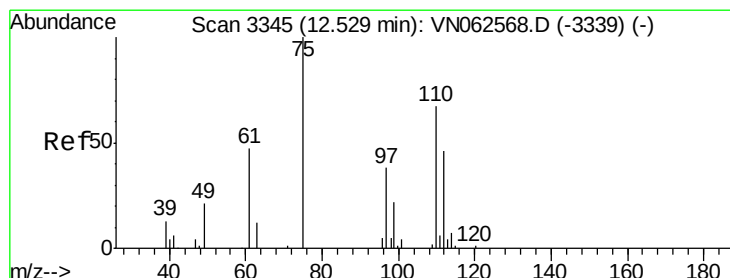
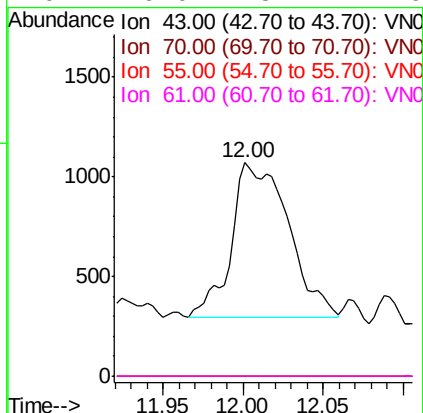
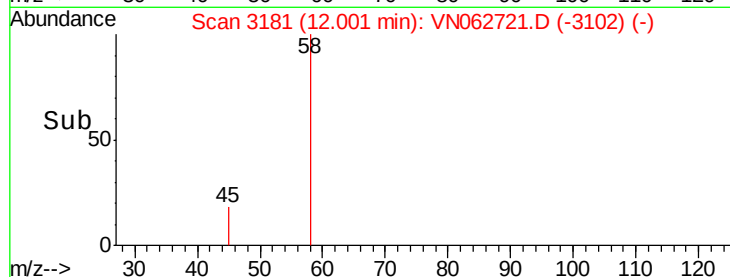
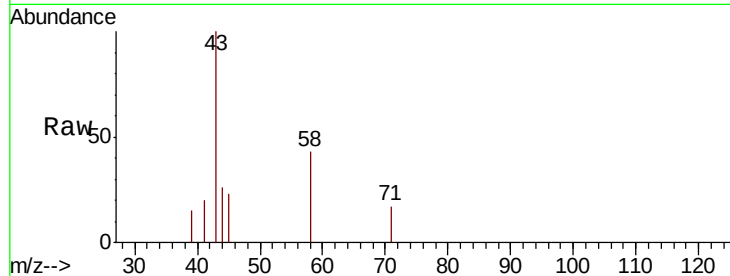




#74
N-amvl acetate
Concen: 0.539 ug/l
RT: 12.00 min Scan# 3181
Delta R.T. -0.05 min
Lab File: VN062721.D
Acq: 1 Aug 2020 6:24

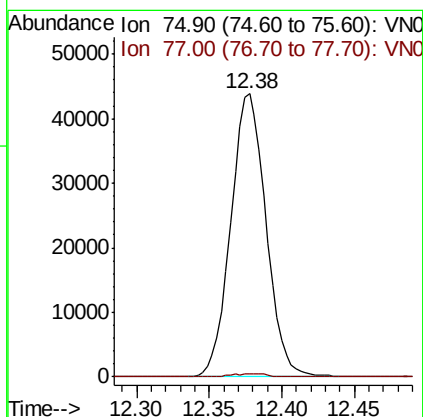
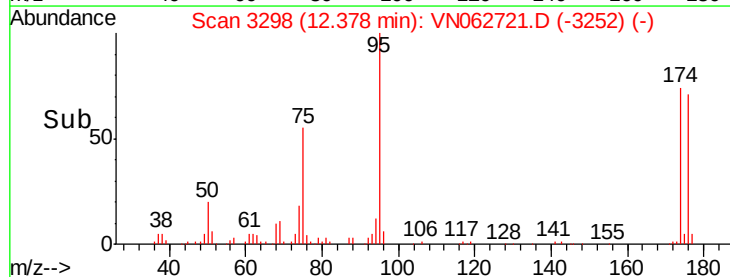
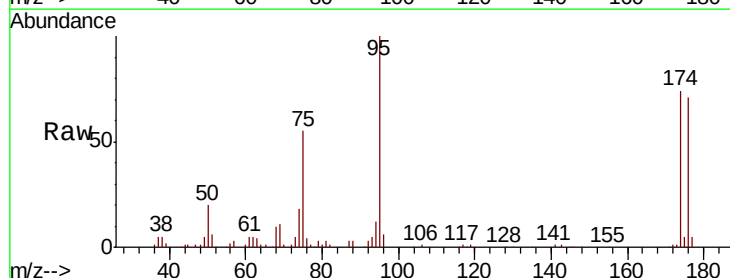
Instrument :
MSVOA_N
ClientSampled :
TP-12

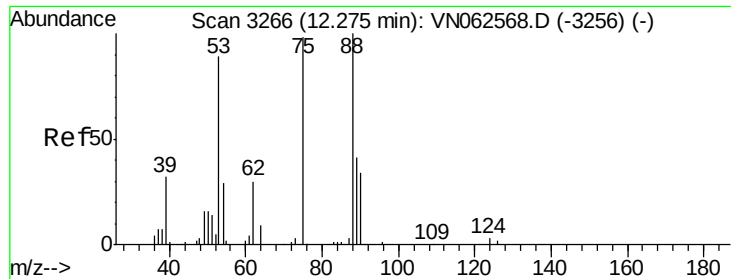
Tot Ion: 43 Resp: 1883
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 19.0 28.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 29.335 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062721.D
Acq: 1 Aug 2020 6:24

Tgt Ion: 75 Resp: 73861
Ion Ratio Lower Upper
75 100
77 0.6 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 81.663 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062721.D

Acq: 1 Aug 2020 6:24

Instrument :

MSVOA_N

ClientSampleId :

TP-12

Tot Ion: 75 Resp: 73861

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

